## PCT





## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: WO<sup>-</sup>99/00406 (11) International Publication Number: C07K 7/06, 7/64, A61K 38/08 A1 (43) International Publication Date: 7 January 1999 (07.01.99) (21) International Application Number: PCT/AU98/00490 (81) Designated States: AU, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, (22) International Filing Date: 25 June 1998 (25.06.98) PT, SE). **Published** (30) Priority Data: 25 June 1997 (25.06.97) ΑU With international search report. PO 7550 (71) Applicant (for all designated States except US): THE UNIVER-SITY OF QUEENSLAND [AU/AU]; Brisbane, QLD 4072 (AU). (72) Inventors; and (75) Inventors/Applicants (for US only): FAIRLIE, David [AU/AU]; 73 Trevallyan Drive, Springwood, QLD 4127 (AU). TAYLOR, Stephen, Maxwell [AU/AU]; 8 Perdita Street, Bellbird Park, QLD 4300 (AU). FINCH, Angela, Monique [AU/AU]; Pioneer Drive, Narangba, QLD 4502 (AU). WONG, Allan [AU/AU]; 19 Gray Avenue, Bundaberg, QLD 4670 (AU). (74) Agent: GRIFFITH HACK; 509 St. Kilda Road, Melbourne, VIC 3004 (AU).

(54) Title: CYCLIC AGONISTS AND ANTAGONISTS OF C5a RECEPTORS AND G PROTEIN-COUPLED RECEPTORS

## (57) Abstract

This invention relates to novel cyclic compounds which have the ability to modulate the activity of G protein—coupled receptors. The invention provides both agonists and antagonists. In preferred embodiments, the invention provides cyclic peptidic and cyclic or non—cyclic non—peptidic antagonists or agonists of C5a. The compounds of the invention are both potent and selective, and are useful in the treatment of conditions mediated by G protein—coupled receptors, especially conditions mediated by overexpression or underregulation of C5a, such as a variety of inflammatory conditions.